

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1-14. (Cancelled)

15. (Currently amended) A method for screening for a bioactive agent capable of binding to ~~that binds the~~ ~~a~~ cell cycle protein R0101 (SEQ ID NO:2) comprising:

a) combining ~~said cell cycle~~ ~~a~~ protein R0101 and a candidate bioactive agent, wherein said protein comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said protein binds to proliferating cell nuclear antigen (PCNA); and

b) determining the binding of said candidate bioactive agent to said ~~cell cycle~~ protein R0101; ~~wherein said cell cycle protein R0101 comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said cell cycle protein R0101 binds to proliferating cell nuclear antigen (PCNA), wherein binding of the candidate bioactive agent to said protein indicates that the candidate bioactive agent binds to said cell cycle protein R0101.~~

16. (Currently amended) A The method according to Claim 15, wherein said ~~cell cycle~~ protein R0101 comprises the amino acid sequence set forth in SEQ ID NO:2.

17. (Currently amended) A The method according to Claim 15, wherein said candidate bioactive agent is a member of a library of candidate bioactive agents and said ~~cell library is a member of combined with~~ plurality of cells comprising a ~~said recombinant nucleic acid encoding said R0101 protein in step a).~~

18-19 (Cancelled)

20. (Currently amended) A The method according to Claim 15, wherein said binding modifies the an activity of said cell cycle protein R0101 protein is modified on binding said candidate bioactive agent.

21. (Currently amended) A The method according to Claim 15, wherein step a) further comprises combining PCNA with said cell cycle protein R0101 and the candidate bioactive agent.